

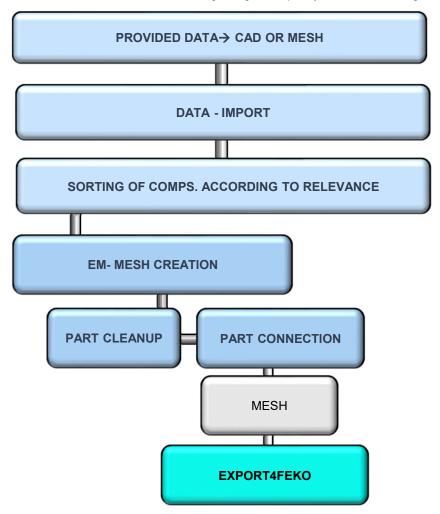
EM - MODEL - CREATION



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Overview

- 1. Import DATA→ CAD or MESH
- 2. Selecting the relevant components (Metallic- Parts)
- 3. Part Cleanup and Simplification Connection Mesh Creation
- 4. HM- EXPORT4FEKO



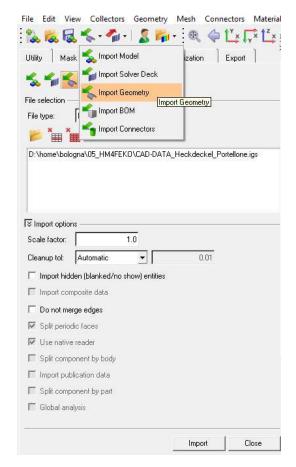


1. Import Data CAD or MESH



• Import *CAD*

Data → *.IGS

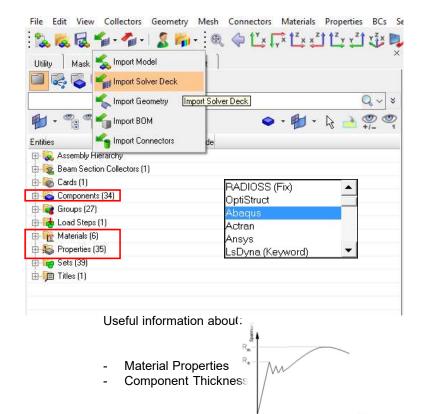




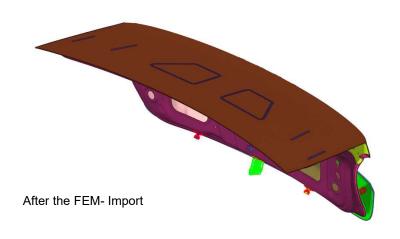


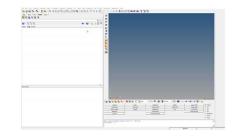
Import MESH

Data → *.INC



- The Orig. Import-File was an FEM- ABAQUS Format







2. Selecting relevant components (Metallic – Parts)



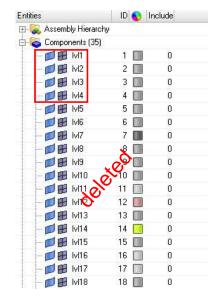
- Process

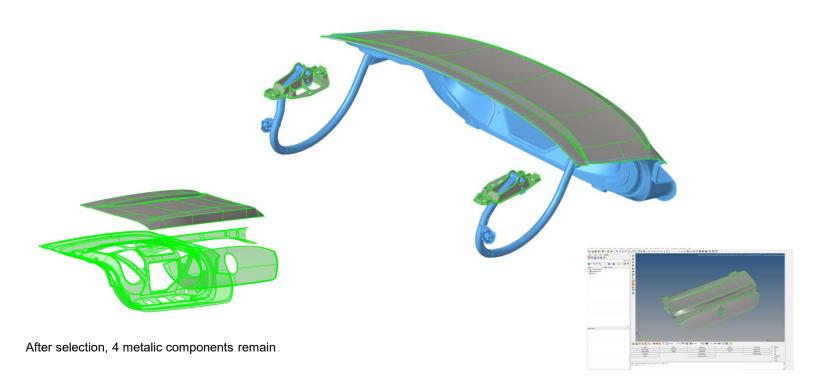
35

4

CAD *.IGS

- Midsurface creation	*.TCL - Script -



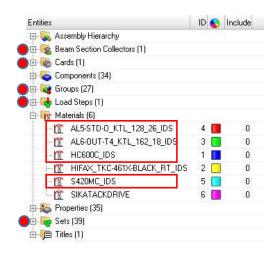


orig. components

Relevant components



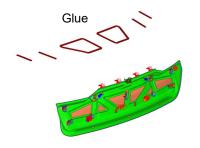
MESH *.INC



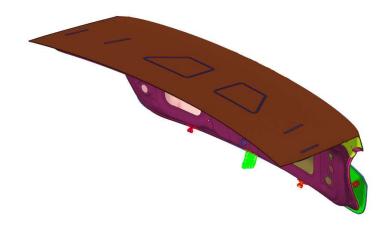
orig. components 34
Relevant components 4

- Meshbased CAD creation fe2geo.tcl





Non metallic Parts can be cancelled

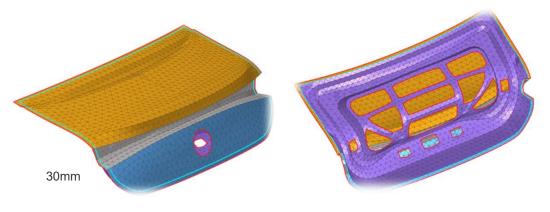




3. Part Cleanup - Simplify - Connection - Mesh Creation



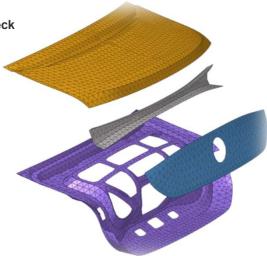
CAD and MESH

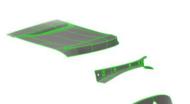


- **Part Connection**
- Part Cleanup / simplification
- **Mesh Creation / Quality Checks**
 - **Single Component**
 - Midsurf Parts

Symmetry → Reduce the estimate Time

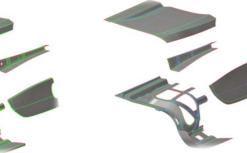
Cleanup and Part Connection Mesh Creation and Quality Check

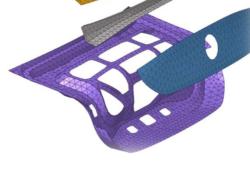












a. Solid Parts

b. Midsurf Parts

c. Symmetry Parts (Processing Time)

d. Cleanup and connection

e. Mesh and Quality Checks



4. HyperMesh Export



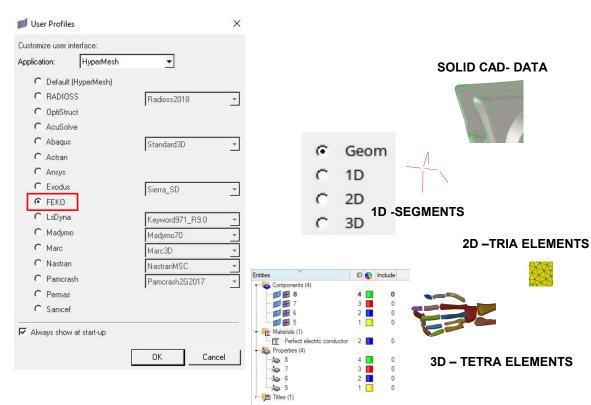
HyperMesh Export

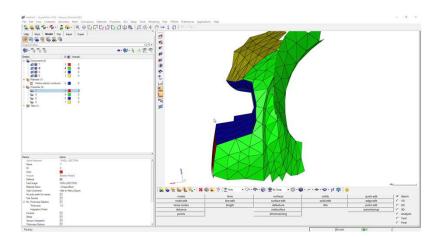
Export Format: *.fhm

Altair HyperMesh 2019 - FOR FEKO

FEKO SPECIAL USER SETTINGS

NEW USER PROFILE 4FEKO







HyperMesh Import

Import Format: *.fhm

Altair HyperMesh 2019 - FOR FEKO

